

## ROUTING AND RECORD SHEET

SUBJECT: (Optional)

Status Update of the SAFE Project

FROM: Harry E. Fitzwater  
Deputy Director for Administration  
7D 24 Hqs

EXTENSION

NO. DDA 84-0006/5

DATE 17 February 1984

STAT

TO: (Officer designation, room number, and building)

DATE

RECEIVED

FORWARDED

OFFICER'S INITIALS

COMMENTS (Number each comment to show from whom to whom. Draw a line across column after each comment.)

1. Executive Director  
7D 55 Hqs

2.

3. Acting Director of  
Central Intelligence  
7D 6015 Hqs

4.

5.

6.

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11.

12.

DDA:HEFitzwater:kmg (17 Feb 84)  
Distribution:

Orig PRS - A/DCI w/att

13.

1 - ER w/att

1 - D/ODP w/att

14.

1 - DDA Subj w/att

1 - DDA Chrono w/att

15.

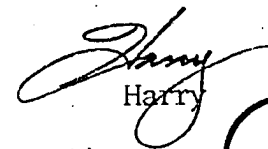
1 - HEF Chrono

To 3:

John:

The attached probably contains more detail than you desired but does give a good picture of SAFE. As you are aware, Jim Williams is concerned with Delivery 4. This is the major SAFE contribution to DIA. Originally we had planned to go with an interim conversion of DIA/DoD files to the SAFE-D system. This appeared to be a reasonable approach since going directly to an Integrated Data Base (IDB) posed some severe difficulties. General Bill Cooper is pushing toward the IDB without the interim step. Until we receive the revised requirements from Bill's shop, it is difficult to determine how difficult it would be to go to the IDB, or whether it can be done, and what impact this will have on the schedule for that delivery. Since Delivery 4 is DIA's module, it is their call, as far as I am concerned. Of course, we will get a vote since the longer this program is drawn out the more impact it has on the utilization of our people and funding.

Another problem that has been with us from the beginning is the "Single User Language (SUL)." This has been a complicated problem but as far as DIA is concerned absolutely necessary. We will have an SUL.



Harry

Att: DDA 84-0006/5

DCI  
EXEC  
REG

DD/A Registry

84-0006/5

17 FEB 1984

MEMORANDUM FOR: Acting Director of Central Intelligence

FROM: Harry E. Fitzwater  
Deputy Director for Administration

SUBJECT: Status Update of the SAFE Project

1. BACKGROUND: Based on your recent conversation with General Williams relative to the newly announced SAFE delivery schedule adjustments, I thought it would be beneficial to review the purpose and development approach of the CSPO directed SAFE effort as well as bring you up to date on the status of the operational system (Delivery 1) and the planned functionality and schedules for subsequent deliveries.

2. PURPOSE:

a. The purpose of the Support for the Analysts' File Environment (SAFE) Project is to provide the needed data processing support to assist CIA and DIA intelligence analysts in coping with the myriad of sources and large quantities of data available on given subjects.

b. The CIA and DIA SAFE systems will receive electrical intelligence data and disseminate this information to the analysts based on their interest profiles. The collected information will also be automatically cataloged, indexed, and maintained online to facilitate retrospective access to this data. The systems will maintain extremely large, online data bases that can be retrieved by analysts utilizing sophisticated text, index, structured, and geographic search capabilities. SAFE will also be a powerful aid in the coordination and production of finished intelligence reports by routing information and by providing text editing and report writing capabilities.

c. For the DIA, SAFE will also provide a means for external users, and delegated producers, to directly update and maintain global DIA files through DoD network communications. SAFE will not only provide access to these global files but will also support the local DIA analysts in indexing, storing, and retrieving personalized information in their private files.

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### 3. DEVELOPMENT APPROACH:

a. The development approach for the SAFE System is to maximize the use of existing software. This approach recognizes the strong relationship between the SAFE requirements and commercial data processing capabilities in the areas of office automation, electronic mail, and data base management systems. The fundamental precepts governing SAFE development are: maximum use of commercial and government available off-the-shelf software packages to satisfy SAFE requirements and incremental delivery of functional capabilities to the users. To take advantage of the large base of available software that is compatible with IBM hardware, SAFE will be built utilizing government furnished IBM compatible hardware for the optimal use of applicable commercial and government software. The SAFE System hardware configuration is viewed as three separate systems: CIA (SAFE-C), DIA (SAFE-D) and an Unclassified-Development System. The SAFE development approach, therefore, is one of integrating, to the largest feasible extent, existing software and minimizing the development of new software. Fundamental to the SAFE development approach is the concept of incremental delivery. By deploying the SAFE System in several deliveries, the knowledge gained from early user involvement and feedback can influence later deliveries, thereby avoiding the costly development of potentially unnecessary software. Each delivery will provide new capabilities and support for increased user populations to the CIA and/or the DIA.

b. The incremental Delivery schedules and projected user populations are shown below:

<u>DELIVERY</u>		<u>SCHEDULE</u>
CIA Early Capability	-	April 1983
DIA Early Capability	-	June 1983
CIA Delivery 1	-	December 1983
DIA Delivery 1	-	January 1984
CIA Delivery 2	-	March 1985
DIA Delivery 3	-	August 1985
CIA Delivery 3	-	October 1985
DIA Delivery 4	-	March 1986
CIA Delivery 5	-	April 1986
DIA Delivery 5	-	June 1986

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<u>END OF:</u>	<u>CIA USER POPULATION</u>
FY-83	300
FY-84	500
FY-85	850
FY-86	1350
FY-87	1800
FY-88	2000

c. The Early Capability delivery involved the installation of the CIA's current Automated Information Management (AIM) and Pilot Mail Operations (PMO) software on SAFE computers in the Headquarters Northside Center to provide the corresponding functional capability of mail viewing, routing, private indexing, and mail saving to a wider user population.

d. Subsequent deliveries will support additional users and provide enhancements to data base management systems, mail dissemination, text search, and compose. Additionally, SAFE will significantly improve the mechanism for producing finished intelligence. For both agencies, the user will have the capability to compose and print finished intelligence reports. These subsequent deliveries are intended to provide an evolutionary development. For DIA, SAFE will provide the opportunity for more effective exploitation of collection resources by providing rapid communication between the managers of collection resources and the intelligence analysts. Many existing DIA data bases contain duplication, and lack data standardization and data integrity. One of the objectives of SAFE is to integrate DIA's intelligence data bases where feasible in an effort to optimize online data base maintenance and retrieval while at the same time reducing data redundancy and the risk of data inconsistency.

e. In summary, SAFE will provide a needed set of processing tools to assist the analyst/manager in producing finished intelligence for national level policy makers.

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#### 4. INCREMENTAL DELIVERIES

a. System implementation will be conducted in incremental deliveries with each delivery, building on an existing, preliminary capability, to provide additional functionality to the users.

b. EARLY CAPABILITY CIA (April 1983) DIA (June 1983)

SAFE development began with Early Capability which became operational in 1983. The SAFE Early Capability provided both DIA and CIA users a SAFE-like capability supported by several separate applications packages: Profile, Mail, Text, and Automatic Information Management (AIM). The Profile software allows users to list words and phrases in "interest profiles" and then logically associate these profile elements in a query expression. These profiles serve to select electrical messages for dissemination to respective users "mail files". Once messages (documents) are placed in mail files, the Mail software allows the user to "save" messages for retention, annotate and/or route messages to other users. Messages may also be deleted from mail files or printed to provide hard copy. The third software package, Text, allows the user to search the complete text of all documents maintained in a master data base or individual private files, created as a result of messages "saved" during the users' review of his mail file. In addition to these three software packages supporting message processing and dissemination, the SAFE Early Capability through the use of AIM, also provides for the creation, editing, formatting, routing and printing of intelligence reports, memorandums, and other documents.

c. DELIVERY 1 - CIA (December 1983) DIA (January 1984)

Delivery 1 provides an improved algorithm for electrical message dissemination processing and one level of interprofile logic (ability of a user's interest profile to reference another interest profile). In addition, Delivery 1 provides access to INQUIRE, text data base management system (DBMS) and M204, structured file DBMS. The INQUIRE DBMS will be utilized for initial prototyping of data structures to optimize search of messages (documents) filed in the system. The M204 DBMS will be utilized to support the conversion of those DIA data bases which are currently supported on the DIA OnLine System (DIAOLS).

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d. DELIVERY 2 - CIA (March 1985)

Delivery 2 provides for the initial integration of comprehensive SAFE functions. The INQUIRE DBMS will be used for the Document and System Catalog files and will provide the capabilities to search the documents by zone or system catalog data. The user may search any number of sources for any specified data ranges. The SAFE Message Analysis Process will be available and will provide a significant increase in the identification of SAFE message zones and system catalog data which can be used in search and display. The SAFE command structure will be used for interaction with Mail Files, and the Document File in INQUIRE.

e. DELIVERY 3 - DIA (August 1985) CIA (October 1985)

For DIA, Delivery 3 will include the augmentation to the capabilities introduced to CIA in Delivery 2 and an initial capability for DIA to reprocess indexed messages through the SAFE system in support of DIA's DoD message retransmission function (Second Pass Dissemination). CRD and HUMINT files will be brought up on the SAFE-D system. A prototype DoDIIS Network Front End will be available to support connections to other DoDIIS test sites.

Delivery 3 for CIA and DIA will allow the user to file and maintain documents in an INQUIRE index file or in AIM data bases. INQUIRE supports data inversion which allows the user to rapidly search and maintain individual document data bases. Users will be able to enter free text annotations to index records or specific terms to keyword fields.

f. DELIVERY 4 - DIA (March 1986)

The DIA interface to DoDIIS communication network will be completed in this delivery. All of the DIAOLS' AIF, DIOBS, ELINT, and crisis management files and products will be converted to the SAFE-D system. In addition, the user interface will be enhanced to include connectivity to these structured files in the Model 204 Data Base Management System via a single user log-on and user language construct. Maintenance transactions will be able to be stored and maintained in transaction files for application to DIA's production data bases based on user initiation. Additional capabilities will be added to support system health monitoring and recording MIS information that will be used in MIS report generation.

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g. DELIVERY 5 - CIA (April 1986) DIA (June 1986)

The SAFE Index File capabilities will be completed in this delivery and include validation criteria to support file maintenance activities. The CIA Central Index File currently maintained on a separate CIA system, will be converted to SAFE-C along with its products (e.g., keyword occurrence lists).

The user interface will be enhanced to support multiple activities in multiple screen configurations. The text composition function will be totally integrated into the user interface and enhanced based upon requirements generated from preliminary use during previous deliveries. Electrical messages that arrive in multiple sections will be combined and processed as a single document for message dissemination and storage.

h. SUBSEQUENT DELIVERIES

While additional augmentation and connectivity requirements are continually being surfaced and explored by the DI and CSPO, and it seems a certainty that subsequent deliveries will be needed, none have been definitized at this time.

5. If further information, or a systems capability demonstration, would be useful, please advise.

~~Harry E. Fitzwater~~

Harry E. Fitzwater

Distribution:

Orig - Addressee

- ① - ER
- 2 - DDA
- 2 - D/ODP
- 2 - ODP/Registry
- 2 - SAFE